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1 atgttgctgatcaactttttcatcgctgttctgggagtgatatcactgtctcctattgtg
1 Met Leu Leu Ile Asn Phe Phe Ile Ala Val Leu Gly Val Ile Ser Leu Ser Pro Ile Val

61 gttgctcggttatattcttcgacgagattgcactacagttacgggtcttgcctcccctgag
21 Val Ala Arg Tyr Ile Leu Arg Arg Asp Cys Thr Thr Val Thr Val Leu Ser Ser Pro Glu

121 tctgtgacgagttcgaaccatgttcagctagccagtcagatgtgacgacagttaccttg
41 Ser Val Thr Ser Ser Asn His Val Glu Leu Ala Ser His Glu Met Cys Asp Ser Thr Leu

181 tcagcgtccctttatatactacaatgatgattatgataagattgtgacactttattatctt
61 Ser Ala Ser Leu Tyr Ile Tyr Asn Asp Asp Tyr Asp Lys Ile Val Thr Leu Tyr Tyr Leu

241 acatcgtcgggcacaaactgggtccgtaacagcgtcttattcttctagtttgagtaacaac
81 Thr Ser Ser Gly Thr Thr Gly Ser Val Thr Ala Ser Tyr Ser Ser Ser Leu Ser Asn Asn

301 tgggaattgtggtctctctcggctccggctgcagatgctgtcgagatcactggagctagt
101 Trp Glu Leu Trp Ser Leu Ser Ala Pro Ala Ala Asp Ala Val Glu Ile Thr Gly Ala Ser

361 tatgtagacagcagatgcactctgcgacatacggcagcttttgatatacctcttactacc
121 Tyr Val Asp Ser Asp Ala Ser Ala Thr Tyr Ala Thr Ser Phe Asp Ile Pro Leu Thr Thr

421 acgacaacgtcgtcgtcttctgctagtgcgacttcaacatctagtctaaccacaacatct
141 Thr Thr Thr Ser Ser Ser Ser Ala Ser Ala Thr Ser Thr Ser Ser Leu Thr Thr Thr Ser

481 agtgtttccatttcgggtgtccgtccctacaggaacagctgcaaattggcgaggtagggct
161 Ser Val Ser Ile Ser Val Ser Val Pro Thr Gly Thr Ala Ala Asn Trp Arg Gly Arg Ala

541 atctatcagatcgtgactgatagattgcacgcactgacggctccaccacatatttatgc
181 Ile Tyr Glu Ile Val Thr Asp Arg Phe Ala Arg Thr Asp Gly Ser Thr Thr Tyr Leu Cys

601 gatgttaccgatagggtctattgctggagggtcttatcaggggattatcaatatgctggat
201 Asp Val Thr Asp Arg Val Tyr Cys Gly Gly Ser Tyr Glu Gly Ile Ile Asn Met Leu Asp

661 tacatccaaggcatgggtttactgctatttggatttctcctatagtggaaaatattccc
221 Tyr Ile Glu Gly Met Gly Phe Thr Ala Ile Trp Ile Ser Pro Ile Val Glu Asn Ile Pro

721 gatgacaccggatacgggttacgcataatcatggttattggatgaaagatatcttcgccctg
241 Asp Asp Thr Gly Tyr Gly Tyr Ala Tyr His Gly Tyr Trp Met Lys Asp Ile Phe Ala Leu

781 aatacaaattttggtactgcagacgatttgatagcgttggctacggaattgcataatcgc
261 Asn Thr Asn Phe Gly Thr Ala Asp Asp Leu Ile Ala Leu Ala Thr Glu Leu His Asn Arg

841 ggcattgtacttgatgggtgatattgttgcatacactttgctttctcaggaagtcatgcc
281 Gly Met Tyr Leu Met Val Asp Ile Val Val Asn His Phe Ala Phe Ser Gly Ser His Ala

901 gacgtggactactctgaatatttcccgtattcgtcccaggattatttctcattcatttgc
301 Asp Val Asp Tyr Ser Glu Tyr Phe Pro Tyr Ser Ser Glu Asp Tyr Phe His Ser Phe Cys

961 tggattacagattactcgaatcagacaaacggtgagcagtgctggcttggcgacgatact
321 Trp Ile Thr Asp Tyr Ser Asn Glu Thr Asn Val Glu Gln Cys Trp Leu Gly Asp Asp Thr

1021 gttcctctcgtggacgtcaatacccaacttgacaccgtgaaaagtgaatatcaatcctgg
341 Val Pro Leu Val Asp Val Asn Thr Glu Leu Asp Thr Val Lys Ser Glu Tyr Gln Ser Trp

1081 gttcaagaacttatagctaattactctattgacggcctaagaattgacaccgtcaagcac
361 Val Glu Glu Leu Ile Ala Asn Tyr Ser Ile Asp Gly Leu Arg Ile Asp Thr Val Lys His

1141 gtgcagatggatttttgggcaccatttcaagaggctgcagggatttacgccgttggtgaa
381 Val Glu Met Asp Phe Trp Ala Pro Phe Glu Glu Ala Ala Gly Ile Tyr Ala Val Gly Glu

1201 gtattcgacggatccatcctacacatgtccatatcaggaaaatcttgacgggtgtcttg
401 Val Phe Asp Gly Asp Pro Ser Tyr Thr Cys Pro Tyr Glu Glu Asn Leu Asp Gly Val Leu

1261 aattatcctgtttattatcctgtcgtctctgcgtttgagagtgtagtgggtcggctctcc
421 Asn Tyr Pro Val Tyr Tyr Pro Val Val Ser Ala Phe Glu Ser Val Ser Gly Ser Val Ser

1321 tcgttagtcgatatgattgatacgtcaagtctgaatgcaccgacactactctcctaggc
441 Ser Leu Val Asp Met Ile Asp Thr Leu Lys Ser Glu Cys Thr Asp Thr Thr Leu Leu Gly

1381 tcctttctagagaatcaagataatccgcgattccctagctacacttctgatgagtcttta
461 Ser Phe Leu Glu Asn Glu Asp Asn Pro Arg Phe Pro Ser Tyr Thr Ser Asp Glu Ser Leu

1441 attaaaaatgcgatcgctttcactatgctctcagacggcattcccataatttattacggg
481 Ile Lys Asn Ala Ile Ala Phe Thr Met Leu Ser Asp Gly Ile Pro Ile Ile Tyr Tyr Gly

FIG. 1a

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1501 caggagcaaggcctcaatgggtggaaacgatccctataatcgagaggcgctttggcttacg
501 Glu Glu Gln Gly Leu Asn Gly Gly Asn Asp Pro Tyr Asn Arg Glu Ala Leu Trp Leu Thr

1561 ggctactccacaacgtcgacgttctacaaatacattgcgtcgttgaatcagattagaaat
521 Gly Tyr Ser Thr Thr Ser Thr Phe Tyr Lys Tyr Ile Ala Ser Leu Asn Glu Ile Arg Asn

1621 caggctatatacaaagatgatacttatctcacatatcagaactgggttatttattcggat
541 Glu Ala Ile Tyr Lys Asp Asp Thr Tyr Leu Thr Tyr Glu Asn Trp Val Ile Tyr Ser Asp

1681 tccacgacaatagcaatgcggaaagggtttacagggaaaccaaataattacggttctgtca
561 Ser Thr Thr Ile Ala Met Arg Lys Gly Phe Thr Gly Asn Glu Ile Ile Thr Val Leu Ser

1741 aatcttgggaccagtggcagttcgtacactttgacgctttcgaatacgggatataccgca
581 Asn Leu Gly Thr Ser Gly Ser Ser Tyr Thr Leu Thr Leu Ser Asn Thr Gly Tyr Thr Ala

1801 tctagcgttgatatgagatcttgacatgcacagctgtgactgtggattcgtctgggaat
601 Ser Ser Val Val Tyr Glu Ile Leu Thr Cys Thr Ala Val Thr Val Asp Ser Ser Gly Asn

1861 ttggcagtgccgatgtccagtggcctaccaaaagtctttatcaggaatcgcaactgggt
621 Leu Ala Val Pro Met Ser Ser Gly Leu Pro Lys Val Phe Tyr Glu Glu Ser Gln Leu Val

1921 ggctctggaatctgctccatgtagag
641 Gly Ser Gly Ile Cys Ser Met

FIG. 1b

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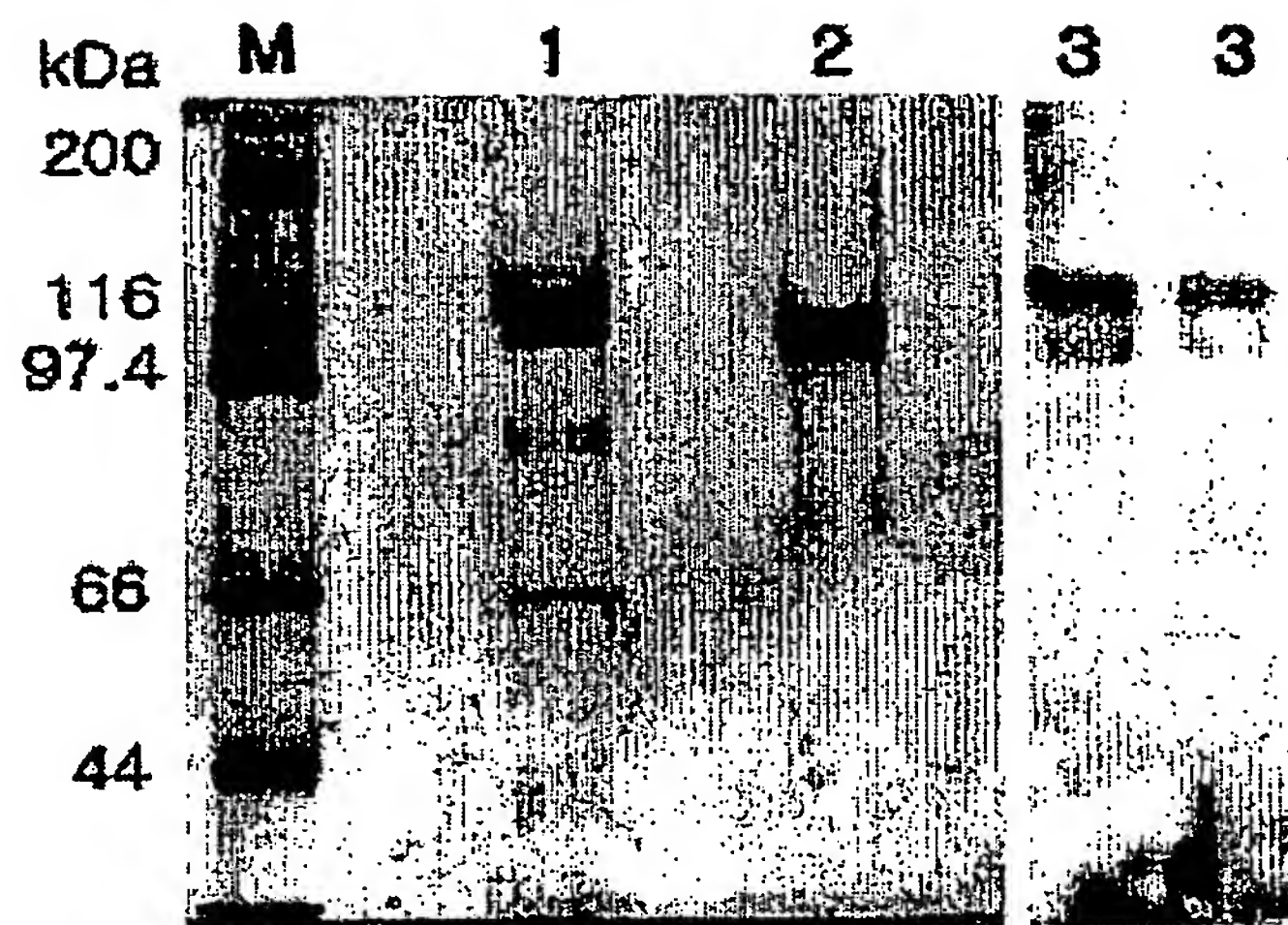


FIG. 2

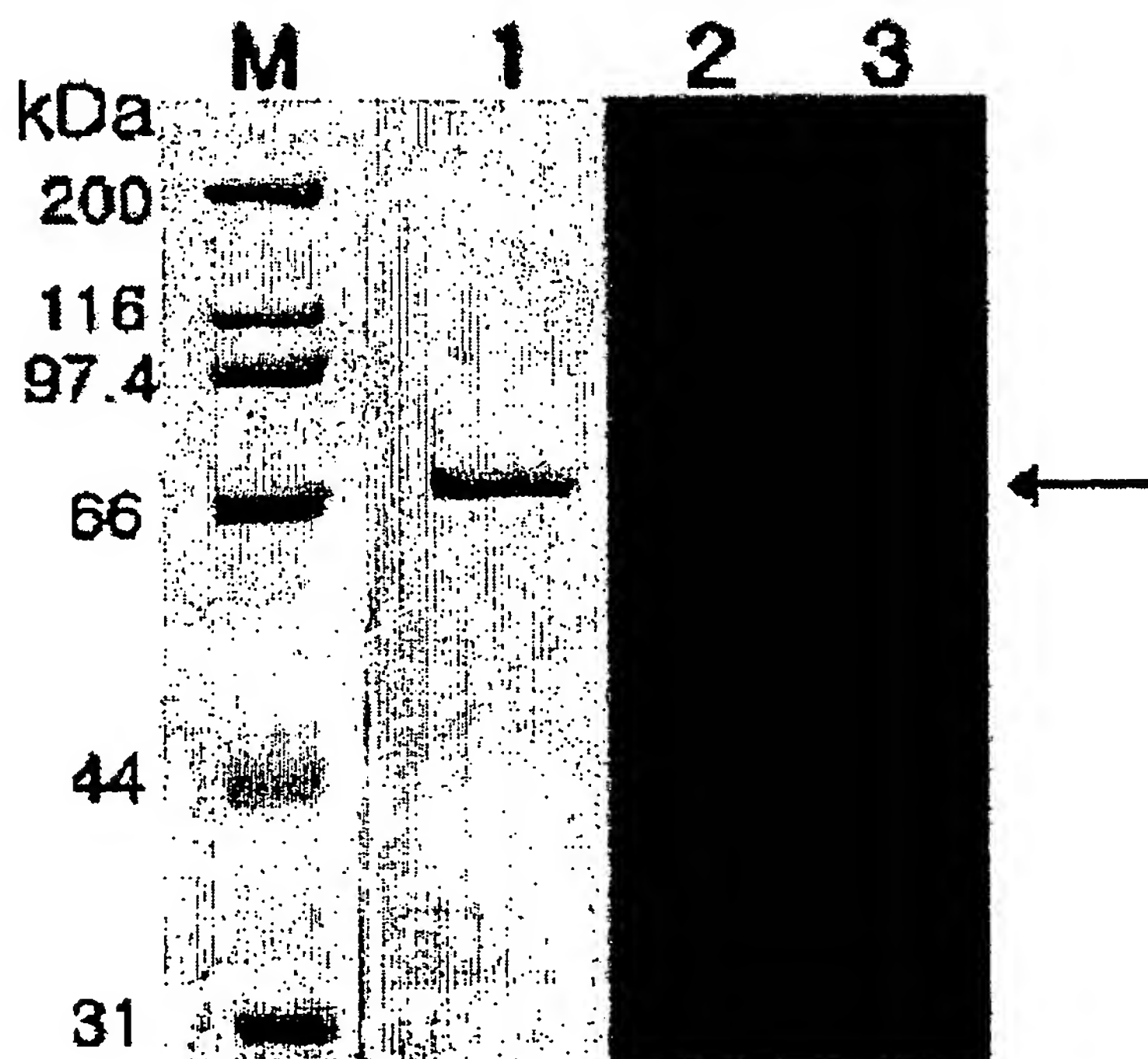


FIG. 3

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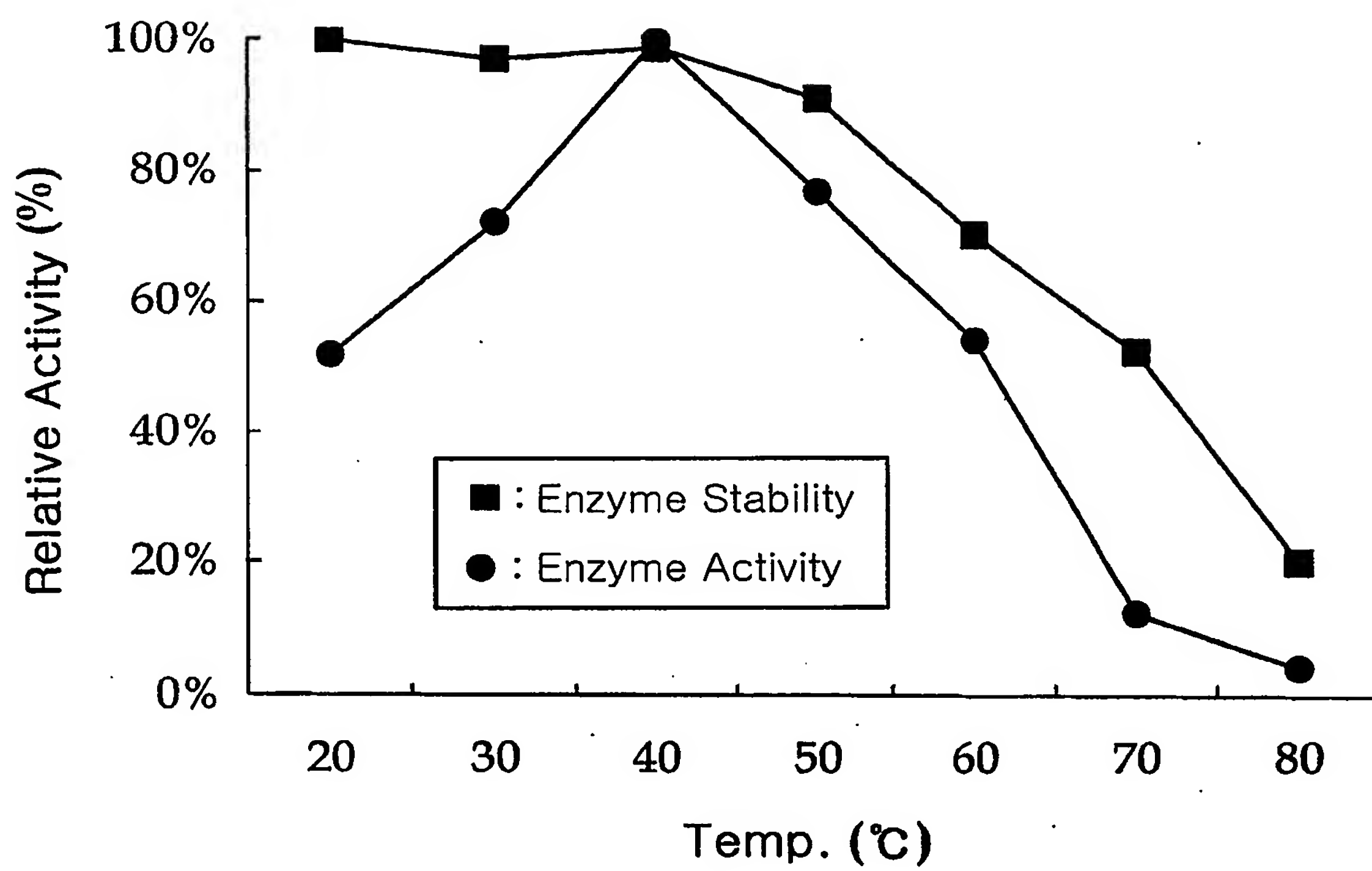


FIG. 4

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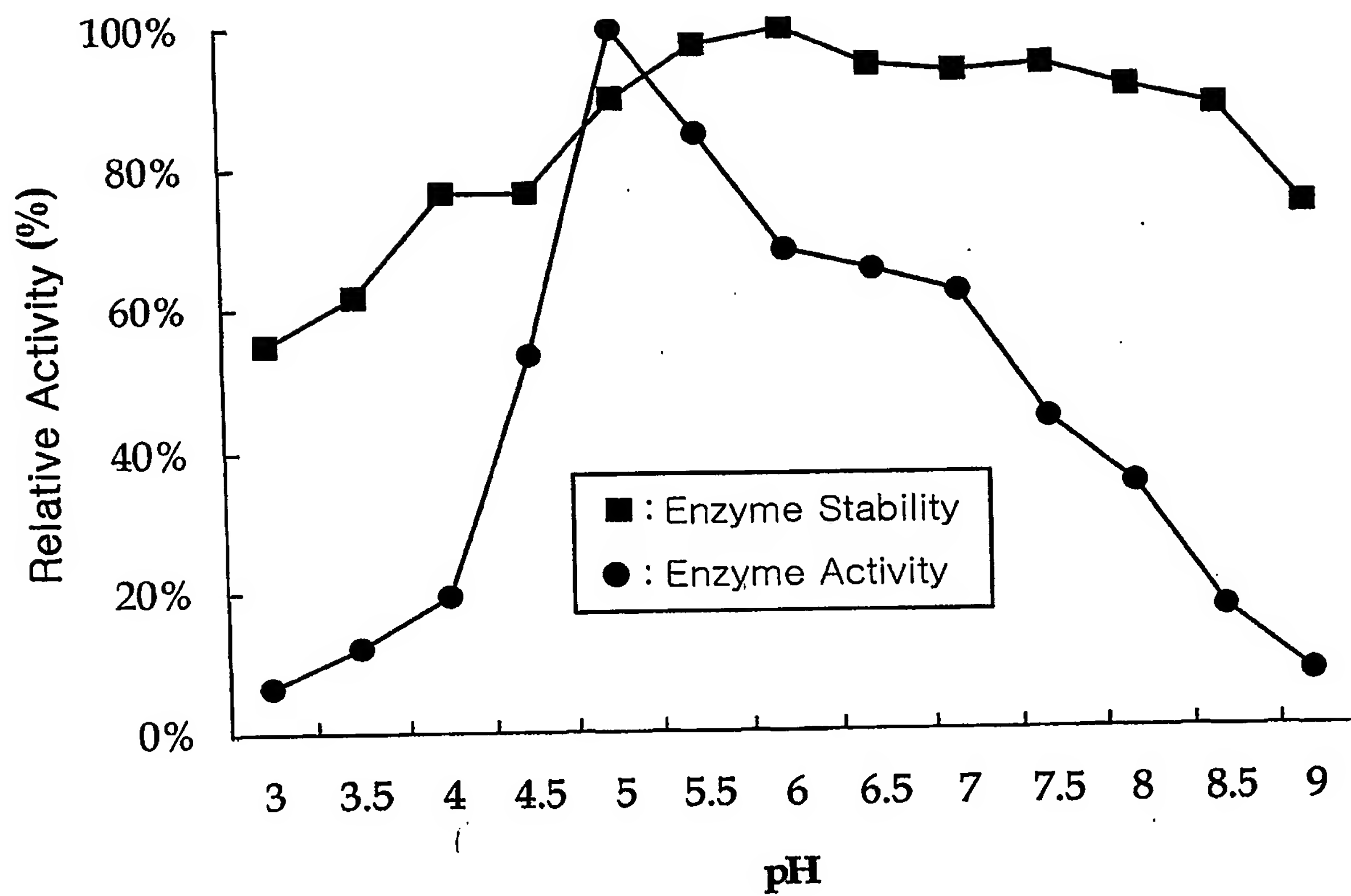


FIG. 5

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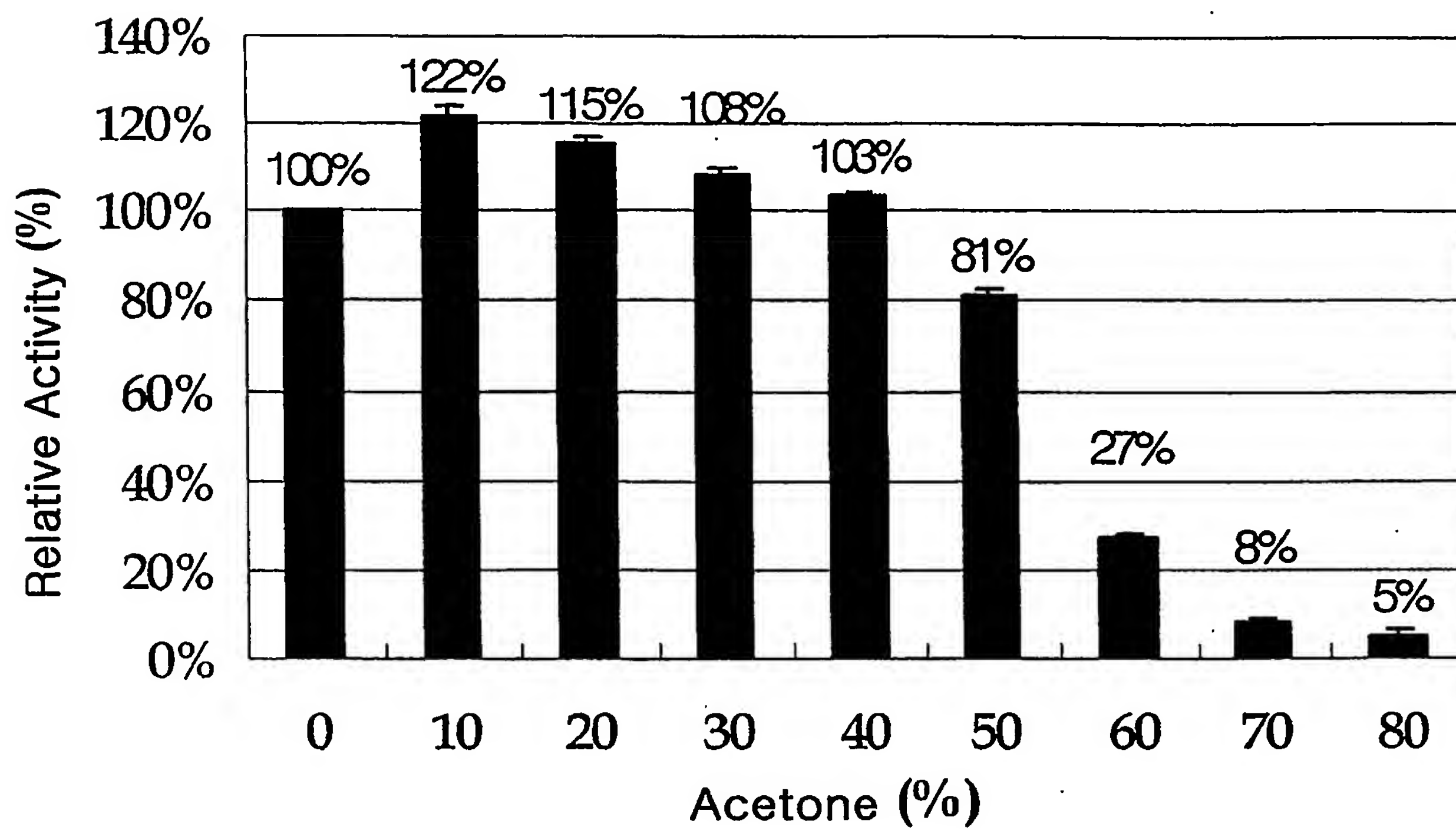


FIG. 6

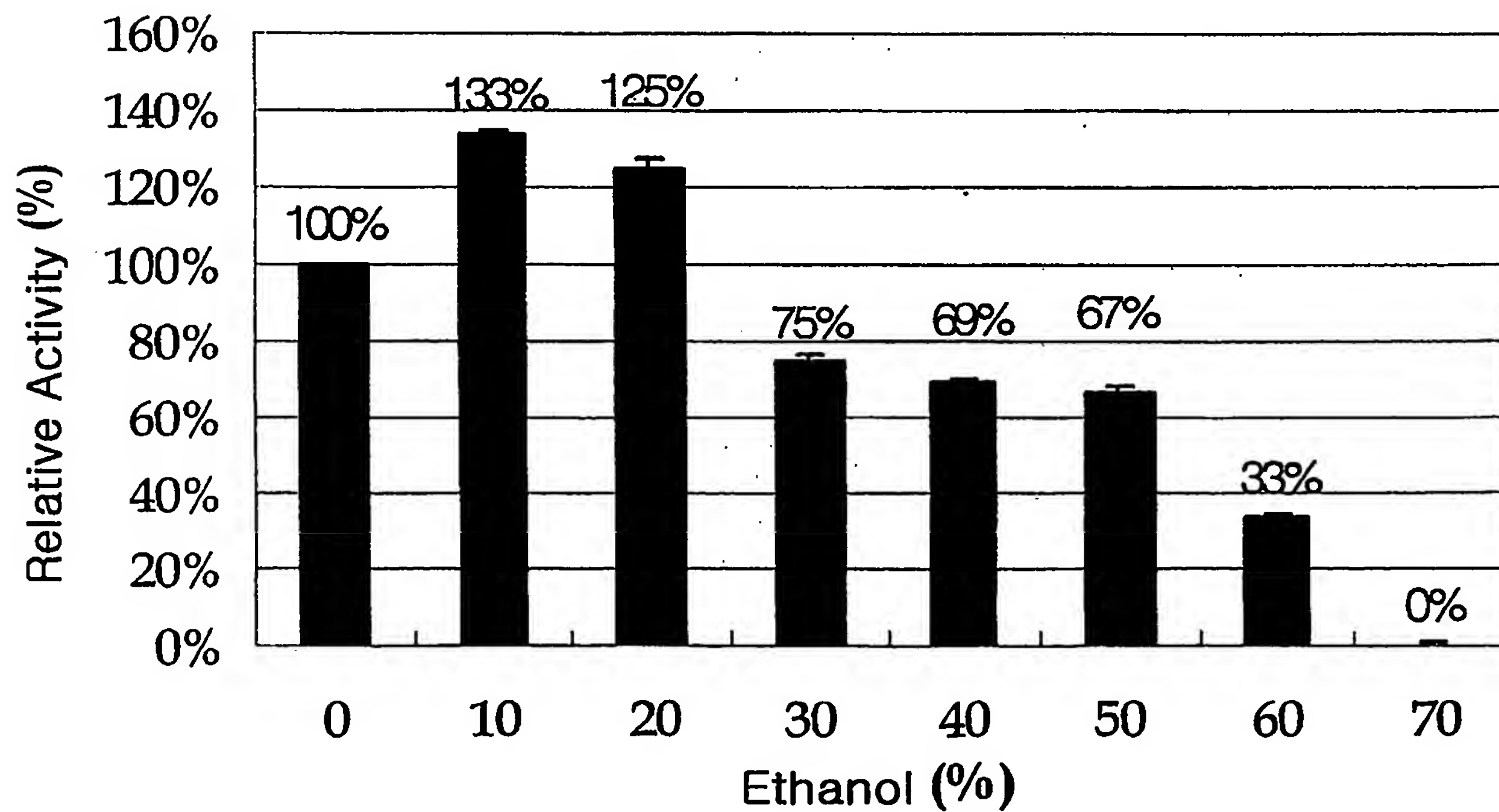


FIG. 7

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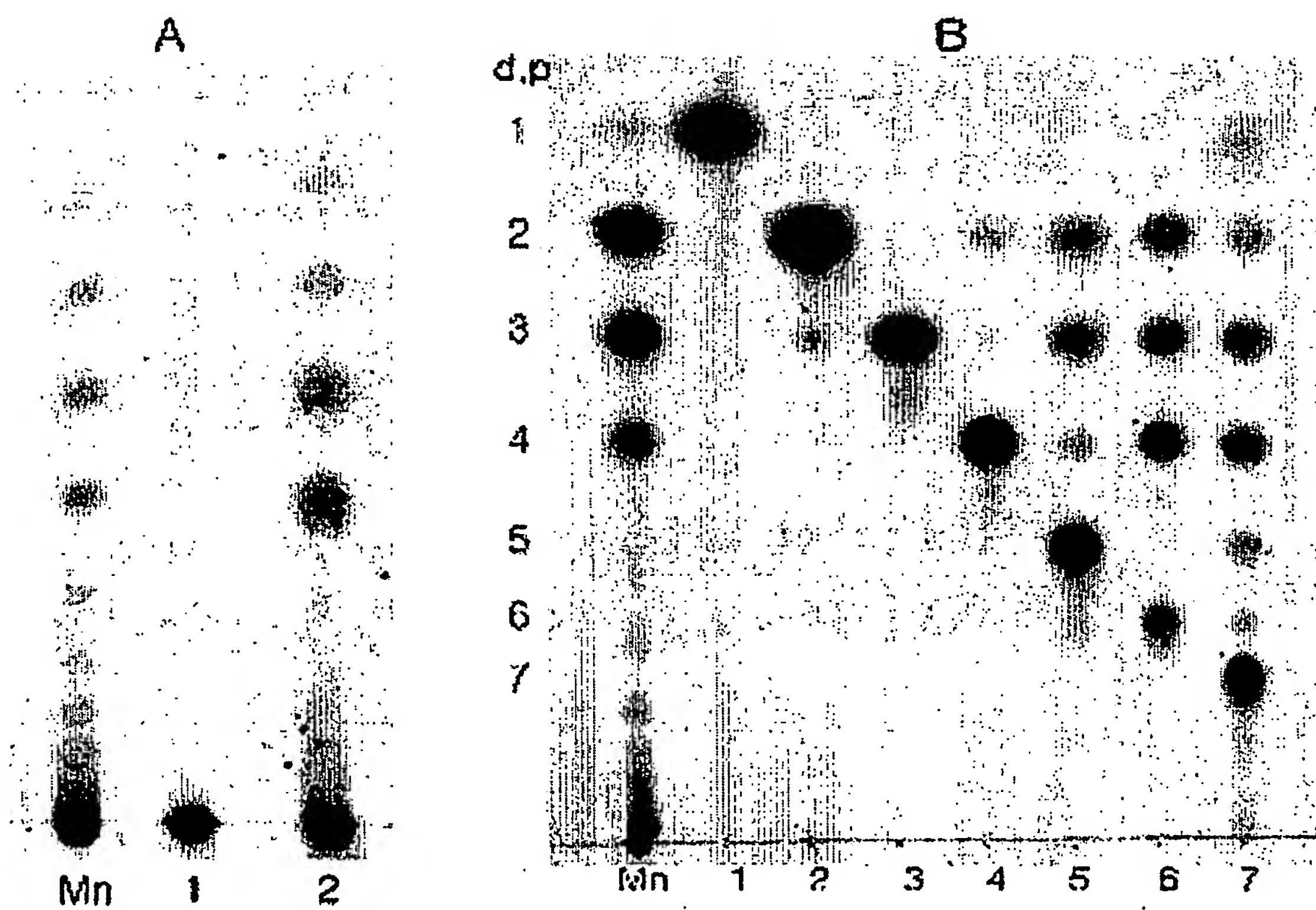


FIG. 8

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